

CURRENT POPULATION SURVEY  
MARCH 1979

TECHNICAL DOCUMENTATION

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MARCH 1979

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Figure 3. Illustration of Record Sequence for Group Quarters.\*

Household Record

Family (Secondary) Record

Person (Secondary Individual) Record

\*NOTE: Each person in group quarters is by definition  
a secondary individual.









































Workers. (See Employed.)

Work Experience. Includes those persons who during the preceding calendar year do any civilian work for pay or profit or work without pay on a family-operated farm or business at any time during the year, on a part-time or full-time basis.

Weeks Worked in the Income Year. Persons are classified according to the number of different weeks, during the preceding calendar year, in which they do any civilian work for pay or profit (including paid vacations and sick leave) or work without pay on a family-operated farm or business.

Year-Round Full-time Worker. A year-round full-time worker is one who worked usually 35 hours or more per week for 50 weeks or more during the preceding calendar year.













































































































































































































































## Appendix E

### Estimation of Sampling Errors for the Current Population Survey - Annual Demographic File 1979

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2. A second ratio estimate for all noninstitutional children is carried out in each of 48 ratio-estimate cells; sex by two race groups (white, black and other races) by 12 age groups (same as those used for blacks in 1. of this section).
  - a. The target numbers are independently derived estimates similar to the ones discussed in section I.C.2.
  - b. Tallies for black and other races are obtained using the weights established in 1. of this section. Tallies for whites are obtained using the principal person's weight for the household in which the child resides.

G. Armed Forces (AF)

Male members of the Armed Forces living off post or living with their families on post are included in the March supplement tabulations, while all other Armed Forces are excluded. The following weighting procedure is used:

1. An AF male, married spouse present, age 14 and over, is given the weight of his wife as described in the weighting for males MSP in section II.C.
2. Children under 14 years of age of AF males are included in the weighting of children described in section II.F.
3. Other Armed Force males, in this case AF living off post and not MSP, are given the basic March CPS base weight appropriate for the March rotation group the AF is in.









































Additional work is necessary to calculate standard errors for family or person characteristics. Because the cluster number and SMSA code appear only on the household records, some way is needed to match families or persons with households. This is accomplished by means of a sequence number unique to each household; each person or family associated with the household has this same number. For household, family, and person records, the mnemonics are HH-SEQ-NUM, FF-SEQ-NUM, and PP-SEQ-NUM, respectively; each number begins in character 1 and is 6 characters in length.

Different weights must also be used in tallying the cluster totals. For families, the correct weight is given in FAM-SUPP-WGT beginning in character 196 and is of length 11; for persons, use the weight given in MAR-SUPP-WGT of length 11 beginning in character 118.

To calculate the standard error, follow steps 1 and 2 above, using the sequence number of each person or family to identify the associated household record and, hence, cluster number and SMSA code. Step 3 should be carried out by tallying family or person weights, as appropriate. Steps 4 and 5 remain unchanged.











Table I.B.2     Standard Errors of Estimated Percentages for Persons  
Employment<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.9	4.0	6.3	8.6	12.5	14.4
50	2.0	2.9	4.4	6.1	8.8	10.2
100	1.4	2.0	3.1	4.3	6.2	7.2
250	0.9	1.3	2.0	2.7	3.9	4.6
500	0.6	0.9	1.4	1.9	2.8	3.2
1,000	0.5	0.6	1.0	1.4	2.0	2.3
2,500	0.3	0.4	0.6	0.9	1.2	1.4
5,000	0.2	0.3	0.4	0.6	0.9	1.0
10,000	0.14	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.13	0.2	0.3	0.4	0.5
50,000	0.06	0.09	0.14	0.2	0.3	0.3
75,000	0.05	0.07	0.12	0.2	0.2	0.3

<sup>1</sup>Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table I.B.3 Standard Errors of Estimated Percentages for Persons  
Persons Tabulated by Family Income<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	3.9	5.4	8.5	11.6	16.8	19.4
50	2.7	3.8	6.0	8.2	11.9	13.7
100	1.9	2.7	4.2	5.8	8.4	9.7
250	1.2	1.5	2.7	3.7	5.3	6.1
500	0.9	1.2	1.9	2.6	3.8	4.3
1,000	0.6	0.9	1.3	1.8	2.7	3.1
2,500	0.4	0.5	0.8	1.2	1.7	1.9
5,000	0.3	0.4	0.6	0.8	1.2	1.4
10,000	0.2	0.3	0.4	0.6	0.8	1.0
25,000	0.12	0.2	0.3	0.4	0.5	0.6
50,000	0.09	0.12	0.2	0.3	0.4	0.4
75,000	0.07	0.10	0.12	0.2	0.3	0.4

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table I.B.4      Standard Errors of Estimated Percentages for Persons  
Income<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.7	3.8	6.0	8.2	11.9	13.7
50	1.9	2.7	4.2	5.8	8.4	9.7
100	1.4	1.9	3.0	4.1	5.9	6.9
250	0.9	1.2	1.9	2.6	3.8	4.3
500	0.6	0.9	1.3	1.8	2.7	3.1
1,000	0.4	0.6	0.9	1.3	1.9	2.2
2,500	0.3	0.4	0.6	0.8	1.2	1.4
5,000	0.2	0.3	0.4	0.6	0.8	1.0
10,000	0.14	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.12	0.2	0.3	0.4	0.4
50,000	0.06	0.09	0.13	0.2	0.3	0.3
75,000	0.05	0.07	0.11	0.15	0.2	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table I.B.5 Standard Errors of Estimated Percentages for Persons  
Marital Status, Household and Family Characteristics<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	3.7	5.2	8.2	11.2	16.2	18.7
50	2.6	3.7	5.8	7.9	11.5	13.2
100	1.9	2.6	4.1	5.6	8.1	9.4
250	1.2	1.7	2.6	3.6	5.1	5.9
500	0.8	1.2	1.8	2.5	3.6	4.2
1,000	0.6	0.8	1.3	1.8	2.6	3.0
2,500	0.4	0.5	0.8	1.1	1.6	1.9
5,000	0.3	0.4	0.6	0.8	1.1	1.3
10,000	0.2	0.3	0.4	0.6	0.8	0.9
25,000	0.12	0.2	0.3	0.4	0.5	0.6
50,000	0.08	0.12	0.2	0.3	0.4	0.4
100,000	0.06	0.08	0.13	0.2	0.3	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table I.B.6 Standard Errors of Estimated Percentages for Persons  
Mobility - Demographic Characteristics

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.9	4.1	6.5	8.9	12.8	14.8
50	2.1	2.9	4.6	6.3	9.1	10.5
100	1.5	2.1	3.2	4.4	6.4	7.4
250	0.9	1.3	2.0	2.8	4.1	4.7
500	0.7	0.9	1.4	2.0	2.9	3.3
1,000	0.5	0.7	1.0	1.4	2.0	2.3
2,500	0.3	0.4	0.6	0.9	1.3	1.5
5,000	0.2	0.3	0.5	0.6	0.9	1.0
10,000	0.15	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.13	0.2	0.3	0.4	0.5
50,000	0.07	0.09	0.14	0.2	0.3	0.3

Table I.B.7      Standard Errors of Estimated Percentages for Persons  
Mobility - U.S., County, State, Regional or SMSA

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	4.9	6.8	10.6	14.7	21.1	24.4
50	3.4	4.8	7.5	10.4	15.0	17.3
100	2.4	3.4	5.3	7.3	10.6	12.2
250	1.5	2.2	3.4	4.6	6.7	7.7
500	1.1	1.5	2.4	3.3	4.7	5.5
1,000	0.8	1.1	1.7	2.3	3.3	3.9
2,500	0.5	0.7	1.1	1.5	2.1	2.4
5,000	0.3	0.5	0.8	1.0	1.5	1.7
10,000	0.2	0.3	0.5	0.7	1.1	1.2
25,000	0.2	0.2	0.3	0.5	0.7	0.8
50,000	0.11	0.2	0.2	0.3	0.5	0.5
100,000	0.08	0.11	0.2	0.2	0.3	0.4

Table I.B.8      Standard Errors of Estimated Percentages for Persons  
Mobility - Non-SMSA

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	6.0	8.4	13.0	17.9	25.9	29.9
50	4.2	5.9	9.2	12.7	18.3	21.1
100	3.0	4.2	6.5	9.0	13.0	15.0
250	1.9	2.6	4.1	5.7	8.2	9.5
500	1.3	1.9	2.9	4.0	5.8	6.7
1,000	0.9	1.3	2.1	2.8	4.1	4.7
2,500	0.6	0.8	1.3	1.8	2.6	3.0
5,000	0.4	0.6	0.9	1.3	1.8	2.1
10,000	0.3	0.4	0.7	0.9	1.3	1.5
25,000	0.2	0.3	0.4	0.6	0.8	0.9
50,000	0.13	0.2	0.3	0.4	0.6	0.7
100,000	0.09	0.13	0.2	0.3	0.4	0.5

Table I.B.9      Standard Errors of Estimated Percentages for Persons  
                     U.S. Population Distribution by Age and/or Sex

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	5.9	8.4	13.0	18.0	25.9	29.9
50	4.2	5.9	9.2	12.7	18.3	21.1
100	3.0	4.2	6.5	9.0	12.9	14.9
250	1.9	2.6	4.1	5.7	8.2	9.4
500	1.3	1.9	2.9	4.0	5.8	6.7
1,000	0.9	1.3	2.1	2.8	4.1	4.7
2,500	0.6	0.8	1.3	1.8	2.6	3.0
5,000	0.4	0.6	0.9	1.3	1.8	2.2
10,000	0.3	0.4	0.7	0.9	1.3	1.5
25,000	0.2	0.3	0.4	0.6	0.8	0.9
50,000	0.13	0.2	0.3	0.4	0.6	0.7

Table I.B.10                      Standard Errors of Estimated Percentages for Persons  
Poverty<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	5.6	7.9	12.3	16.9	24.4	28.2
50	4.0	5.6	8.7	12.0	17.3	19.9
100	2.8	3.9	6.1	8.5	12.2	14.1
250	1.8	2.5	3.9	5.3	7.7	8.9
500	1.3	1.8	2.7	3.8	5.5	6.3
1,000	0.9	1.2	1.9	2.7	3.9	4.5
2,500	0.6	0.8	1.2	1.7	2.4	2.8
5,000	0.4	0.6	0.9	1.2	1.7	2.0
10,000	0.3	0.4	0.6	0.8	1.2	1.4
25,000	0.2	0.2	0.4	0.5	0.8	0.9
50,000	0.13	0.2	0.3	0.4	0.5	0.6

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table I.B.11 Standard Errors of Estimated Percentages for Persons  
State, Region, or SMSA-Non-SMSA Residence<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	4.1	5.8	9.0	12.4	17.9	20.6
50	2.9	4.1	6.4	8.8	12.6	14.6
100	2.1	2.9	4.5	6.2	8.9	10.3
250	1.3	1.8	2.8	3.9	5.6	6.5
500	0.9	1.3	2.0	2.8	4.0	4.6
1,000	0.6	0.9	1.4	2.0	2.8	3.3
2,500	0.4	0.6	0.9	1.2	1.8	2.1
5,000	0.3	0.4	0.6	0.9	1.3	1.5
10,000	0.2	0.3	0.4	0.6	0.9	1.0
25,000	0.13	0.2	0.3	0.4	0.6	0.7
50,000	0.09	0.13	0.2	0.3	0.4	0.5
100,000	0.07	0.10	0.14	0.2	0.3	0.3

<sup>1</sup> Also, central city-balance, etc.

Table I.8.12      Standard Errors of Estimated Percentages for Persons  
Unemployed<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.8	3.9	6.1	8.4	12.2	14.0
50	2.0	2.8	4.3	6.0	8.6	9.9
100	1.4	2.0	3.1	4.2	6.1	7.0
250	0.9	1.2	1.9	2.7	3.8	4.4
500	0.6	0.9	1.4	1.9	2.7	3.1
1,000	0.4	0.6	1.0	1.3	1.9	2.2
2,500	0.3	0.4	0.6	0.8	1.2	1.4
5,000	0.2	0.3	0.4	0.6	0.9	1.0
10,000	0.14	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.12	0.2	0.3	0.4	0.4
50,000	0.06	0.09	0.14	0.2	0.3	0.3
100,000	0.04	0.06	0.10	0.13	0.2	0.2

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.



Table II.B.1      Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
Employment<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.7	3.8	5.8	8.0	11.6	13.4
50	1.9	2.7	4.1	5.7	8.2	9.5
100	1.3	1.9	2.9	4.0	5.8	6.7
250	0.8	1.2	1.8	2.5	3.7	4.2
500	0.6	0.8	1.3	1.8	2.6	3.0
1,000	0.4	0.6	0.9	1.3	1.8	2.1
2,500	0.3	0.4	0.6	0.8	1.2	1.3
5,000	0.2	0.3	0.4	0.6	0.8	1.0
10,000	0.13	0.2	0.3	0.4	0.6	0.7
25,000	0.08	0.12	0.2	0.3	0.4	0.4
50,000	0.06	0.08	0.13	0.2	0.3	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table II.B.2      Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
Income<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.6	3.7	5.7	7.9	11.4	13.1
50	1.8	2.6	4.0	5.6	8.0	9.3
100	1.3	1.8	2.9	3.9	5.7	6.6
250	0.8	1.2	1.8	2.5	3.6	4.1
500	0.6	0.8	1.3	1.8	2.5	2.9
1,000	0.4	0.6	0.9	1.2	1.8	2.1
2,500	0.3	0.4	0.6	0.8	1.1	1.3
5,000	0.2	0.3	0.4	0.6	0.8	0.9
10,000	0.12	0.2	0.3	0.4	0.6	0.7
25,000	0.08	0.12	0.2	0.2	0.4	0.4
50,000	0.06	0.08	0.13	0.2	0.3	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table II.B.3 Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
Marital Status, Household and Family Characteristics, Educational  
Attainment, U. S. Population Distribution by Age and/or Sex<sup>1</sup>

Base of Percentage (in thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.3	3.3	5.1	7.1	10.2	11.8
50	1.7	2.3	3.6	5.0	7.2	8.3
100	1.2	1.7	2.6	3.5	5.1	5.9
250	0.7	1.0	1.6	2.2	3.2	3.7
500	0.5	0.7	1.1	1.6	2.3	2.6
1,000	0.4	0.5	0.8	1.1	1.6	1.9
2,500	0.2	0.3	0.5	0.7	1.0	1.2
5,000	0.2	0.2	0.4	0.5	0.7	0.8
10,000	0.12	0.2	0.3	0.4	0.5	0.6
25,000	0.07	0.10	0.2	0.2	0.3	0.4
50,000	0.05	0.07	0.12	0.2	0.2	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table II.B.4      Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
Poverty<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.7	3.8	6.0	8.2	11.9	13.7
50	1.9	2.7	4.2	5.8	8.4	9.7
100	1.4	1.9	3.0	4.1	5.9	6.8
250	0.9	1.2	1.9	2.6	3.8	4.3
500	0.6	0.9	1.3	1.8	2.7	3.1
1,000	0.4	0.6	0.9	1.3	1.9	2.2
2,500	0.3	0.4	0.6	0.8	1.2	1.4
5,000	0.2	0.3	0.4	0.6	0.8	1.0
10,000	0.14	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.12	0.2	0.3	0.4	0.4
50,000	0.06	0.09	0.13	0.2	0.3	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table II.B.5      Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
State, Region, or SMSA-Non-SMSA Residence<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.9	4.1	6.4	8.8	12.8	14.7
50	2.1	3.0	4.5	6.3	9.0	10.4
100	1.5	2.1	3.2	4.4	6.4	7.4
250	0.9	1.3	2.0	2.8	4.0	4.7
500	0.7	0.9	1.4	2.0	2.9	3.3
1,000	0.5	0.7	1.1	1.4	2.0	2.3
2,500	0.3	0.4	0.6	0.9	1.3	1.5
5,000	0.2	0.3	0.5	0.6	0.9	1.0
10,000	0.15	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.13	0.2	0.3	0.4	0.5
50,000	0.07	0.09	0.14	0.2	0.3	0.3

<sup>1</sup> Also, central city-balance, etc.

Table II.B.6      Standard Errors of Estimated Percentages for Families,  
Households, or Unrelated Individuals  
Unemployment<sup>1</sup>

Base of Percentage (thousands)	Estimated Percentage					
	1 or 99	2 or 98	5 or 95	10 or 90	25 or 75	50
25	2.8	3.9	6.1	8.4	12.2	14.0
50	2.0	2.8	4.3	6.0	8.6	9.9
100	1.4	2.0	3.1	4.2	6.1	7.0
250	0.9	1.2	1.9	2.7	3.8	4.4
500	0.6	0.9	1.4	1.9	2.7	3.1
1,000	0.4	0.6	1.0	1.3	1.9	2.2
2,500	0.3	0.4	0.6	0.8	1.2	1.4
5,000	0.2	0.3	0.4	0.6	0.9	1.0
10,000	0.14	0.2	0.3	0.4	0.6	0.7
25,000	0.09	0.12	0.2	0.3	0.4	0.4
50,000	0.06	0.09	0.14	0.2	0.3	0.3

<sup>1</sup> Multiply standard errors by 1.41 when national, regional, or state data for this characteristic are tabulated by SMSA-non-SMSA, central city-balance, etc.

Table III. Factors to be Applied to Tables I.B.1  
Through I.B.12 and Tables II.B.1 Through II.B.6

Characteristic	Factor		
	Total or White	Black and Other Races	Spanish Origin
<u>Persons</u>			
Educational Attainment	1.00	1.16	1.05
Employment	1.00	1.00	1.12
Persons Tabulated by Family Income	1.00	1.07	1.26
Income	1.00	1.07	1.26
Marital Status, Household and Family Characteristics	1.00	1.20	1.13
Mobility			
Demographic Characteristics	1.00	1.00	1.18
U.S., County, State, Regional, or SMSA	1.00	1.00	1.18
Non-SMSA	1.00	1.00	1.00
Population Distribution by Age and/or Sex	0	0	1.00
Poverty	1.00	1.00	1.20
State, Region, or SMSA-Non-SMSA Residence	1.00 <sup>1</sup>	1.32	1.45
Unemployment	1.00	1.07	0.75
<u>Families, Households, or Unrelated Individuals</u>			
Employment	1.00	1.00	1.02
Income	1.00	1.04	1.19
Marital Status, Household and Family Characteristics, Educational Attainment, U.S. Population Distribution by Age and/or Sex	1.00	0.95	1.01
Poverty	1.00	1.00	0.93 <sup>2/</sup>
State, Region, or SMSA-non-SMSA Residence	1.00	1.09	1.14
Unemployment	1.00	1.07	0.75

<sup>1</sup> When the characteristic of interest is just total state population, this factor is 0.

<sup>2</sup> To obtain the standard error of an estimated level for this characteristic, the standard error must be computed directly using the parameters from Table IV and formula (7).





Table V. cont. Factors by Which Standard Errors Will Change  
for States and SMSAs<sup>1</sup>

Subordinate Area	Factor <sup>2</sup>	1970 Census Population
Vermont	0.49	444,830
Virginia	1.11	4,648,494
Washington	1.05	3,409,169
West Virginia	0.87	1,744,237
Wisconsin	1.06	4,417,731
Wyoming	0.40	332,416

<sup>1</sup> For totals, apply factors to table I.A and II.A; for percents apply factors to tables I.B.1 through I.B.12 and II.B.1 through II.B.6 in conjunction with table III.

<sup>2</sup> The "a" parameters are obtained by applying the factor to the "a" parameter of the characteristic of interest for the total or white or all races category only. The factor is applied to the "b" parameter for any race or Spanish Origin.